51-92.R 26

1880

metal Plane 51-240

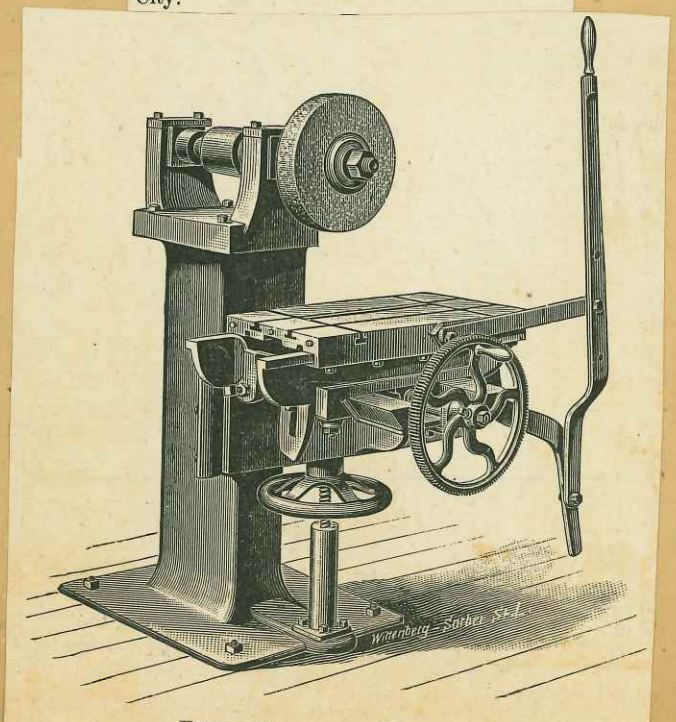
## Emery Surfacing Machine.

Am. Machinist 4/4/88-6.

The engraving represents a new machine for both special and general machine shop work. It is what may be termed an under surfacer. The work is securely fastened to the platen by either bolts, straps or vise chuck. The work is then brought up to the wheel by means of the stand-screw underneath the platen. The platen is then reciprocated by means of the hand lever so rapidly as to avoid heating of the work. At the same time the work is fed out and in across the under surface of the wheel by means of the feed screw. This enables the operator to regulate the feed or cut to suit the work. The work being secured firmly to the platen, which is gibbed so as to permit no jumping, insures a good surface.

The platen can be set to an angle of 30°, thereby enabling the operator to grind a bevel surface. The machine is adapted to grinding gibs, keys, straps, surfaces and bevels as well as a variety of other work. For grinding chilled and hardened surfaces it is a very convenient tool. It is also made to use a cupped wheel when desired. The hand movement is generally preferred, on account of its greater rapidity of work. The centers of ordinary emery wheels can be utilized on this machine when they are worn so small as to require a higher speed. It has steel shaft $1\frac{7}{16}$ inches in diameter, with 4x4 inch pulley between the bearings. The bearings are 6 inches in length. Floor space, about 24x30 inches. It should be speeded to suit quality and size of wheel. It will take a wheel from $\frac{1}{2}$ inch to 4 inches in thickness.

The machine is made by the Sterling Emery Wheel Co., 17 Dey street, New York City.




EMERY SURFACING MACHINE.